

10696478

=> d his

(FILE 'HOME' ENTERED AT 11:56:01 ON 12 MAY 2004)

FILE 'REGISTRY' ENTERED AT 11:56:13 ON 12 MAY 2004

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 16 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 11:57:11 ON 12 MAY 2004

L4 2 S L3

FILE 'REGISTRY' ENTERED AT 12:34:25 ON 12 MAY 2004

L5 STRUCTURE UPLOADED
L6 1 S L5
L7 18 S L5 SSS FULL
L8 2 S L7 NOT L3

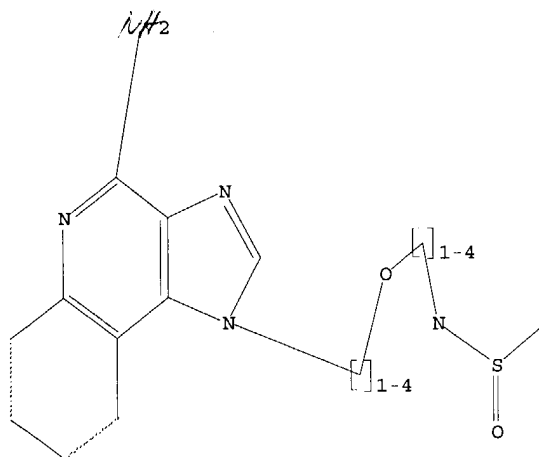
FILE 'CAPLUS' ENTERED AT 12:35:33 ON 12 MAY 2004

L9 2 S L8
L10 0 S L9 NOT L4

=> d l1

L1 HAS NO ANSWERS

L1 STR

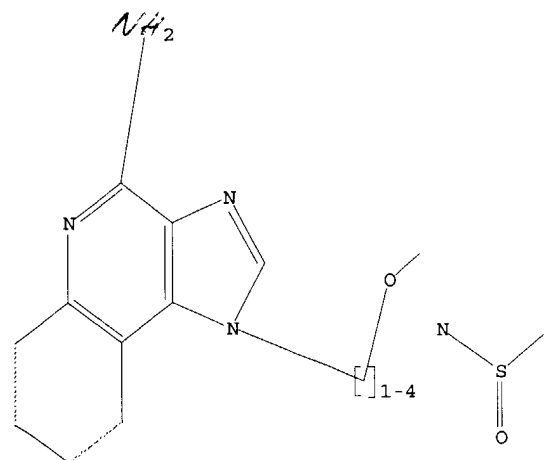


Structure attributes must be viewed using STN Express query preparation.

=> d l5

L5 HAS NO ANSWERS

L5 STR



10696478

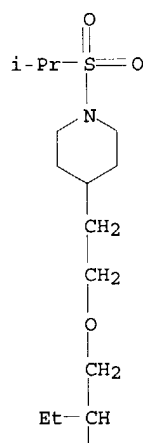
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=> d scan l8

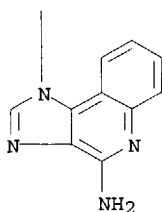
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L8 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Piperidine, 4-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)butoxy]ethyl]-
1-[(1-methylethyl)sulfonyl]- (9CI)
MF C24 H35 N5 O3 S

PAGE 1-A



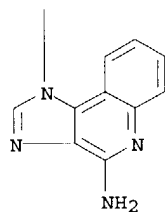
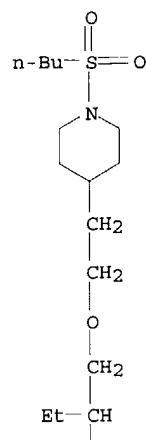
PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L8 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Piperidine, 4-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)butoxy]ethyl]-
1-(butylsulfonyl)- (9CI)
MF C25 H37 N5 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10696478

=> d his

(FILE 'HOME' ENTERED AT 11:56:01 ON 12 MAY 2004)

FILE 'REGISTRY' ENTERED AT 11:56:13 ON 12 MAY 2004

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 16 S L1 SSS FULL

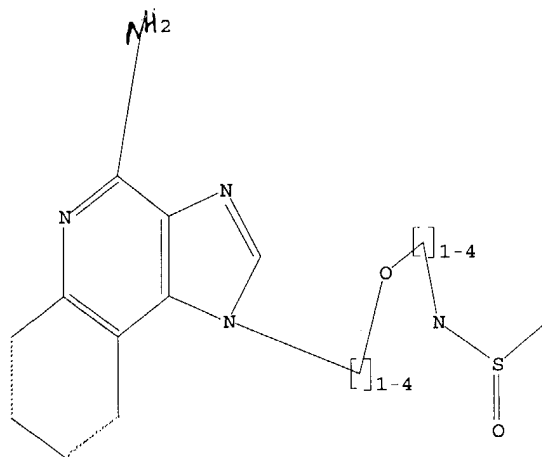
FILE 'CAPLUS' ENTERED AT 11:57:11 ON 12 MAY 2004

L4 2 S L3

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> d 1-2 bib abs hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:570648 CAPLUS

DN 139:133563

TI Preparation of sulfonamidoalkoxyalkylimidazoquinolines as immune response modulators.

IN Crooks, Stephen L.; Griesgraber, George W.; Heppner, Philip D.; Merrill, Bryon A.; Roberts, Ralph R.; Wei, Ai-Ping

PA 3M Innovative Properties Co., USA

SO U.S. Pat. Appl. Publ., 46 pp., Cont.-in-part of U.S. Ser. No. 12,599.

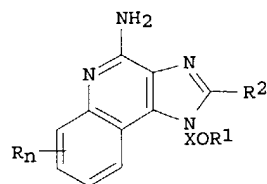
CODEN: USXXCO

DT Patent

LA English

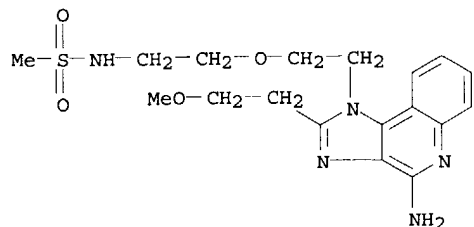
FAN.CNT 11

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	US 6677347	B2	20040113		
	US 2002193396	A1	20021219	US 2001-12599	20011201
	US 6683088	B2	20040127		
	US 2004072858	A1	20040415	US 2003-675833	20030930
PRAI	US 2000-254218P	P	20001208		
	US 2001-12599	A2	20011201		
	US 2001-11921	A1	20011206		
OS	MARPAT 139:133563				
GI					

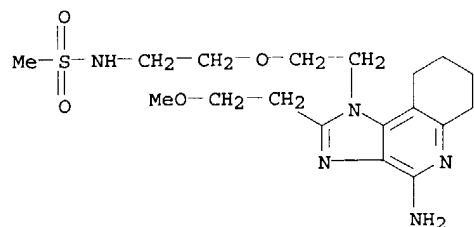


I

- AB Title compds. [I; X = CHR5, CHR5, CHR5, R1 = R4NR3SO2R6A, R4NR3SOR7, R4NR3SO2NR5R6A, R4NR3SO2NH2; A = alkyl, alkenyl, aryl, heteroaryl, heterocyclyl; R2 = H, (substituted) alkyl, alkenyl, aryl, heteroaryl, heterocyclyl, alkyl-Y-alkyl, alkyl-Y-alkenyl, alkyl-Y-aryl; Y = O, S(O)0-2; R3 = H, alkyl, arylalkyl; R4 = alkyl, alkenyl, which may be interrupted by ≥ 1 O; R3R4 form a ring; R5 = H, alkyl, alkenyl; R6 = bond, alkyl, alkenyl, which may be interrupted by ≥ 1 O; R7 = alkyl; R3R7 form a ring; n = 0-4; R = alkyl, alkoxy, OH, halo, CF3], were prepared Thus, tert-Bu 2-[2-[(3-aminoquinolin-4-yl)amino]ethoxy]ethylcarbamate (preparation given) in CH2Cl2 was cooled to 0° and treated with Et3N and methoxypropionyl chloride; The reaction was then warmed to room temperature and stirring was continued for 1 h to give tert-Bu 2-[2-[2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethylcarbamate. This was converted to N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]methanesulfonamide in several steps. I showed interferon induction in human cells with lowest effective concns. of 0.0001-1 μ M.
- IT 437382-50-8P, N-[2-[2-[4-Amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]methanesulfonamide 437382-51-9P, N-[2-[2-[4-Amino-2-(2-methoxyethyl)-6,7,8,9-tetrahydro-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]methanesulfonamide 437382-52-0P, N-[2-[2-[4-Amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methylmethanesulfonamide 437382-53-1P, N-[2-[2-[4-Amino-2-(2-methoxyethyl)-6,7,8,9-tetrahydro-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methylmethanesulfonamide 437382-55-3P 437382-56-4P 437382-58-6P 437382-61-1P 437382-75-7P 437382-89-3P 565454-55-9P 565454-56-0P 565454-57-1P 565454-58-2P 565454-59-3P 565454-60-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of sulfonamidoalkoxyalkylimidazoquinolines as immune response modulators)
- RN 437382-50-8 CAPLUS
- CN Methanesulfonamide, N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]- (9CI) (CA INDEX NAME)



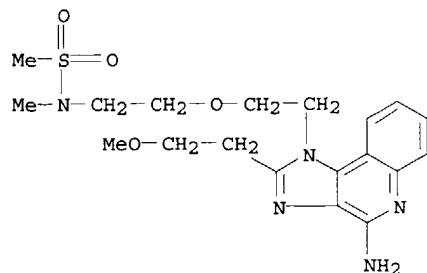
- RN 437382-51-9 CAPLUS
- CN Methanesulfonamide, N-[2-[2-[4-amino-6,7,8,9-tetrahydro-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]- (9CI) (CA INDEX NAME)



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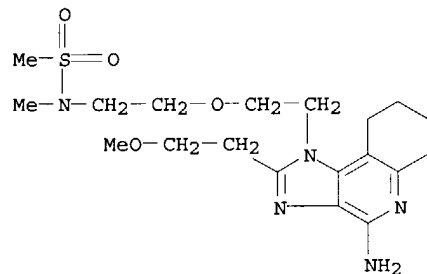
RN 437382-52-0 CAPLUS

CN Methanesulfonamide, N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methyl- (9CI) (CA INDEX NAME)



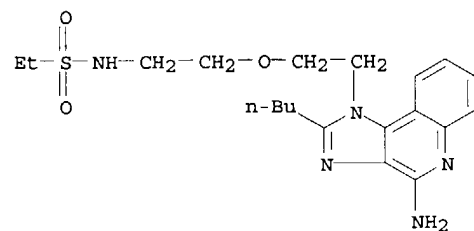
RN 437382-53-1 CAPLUS

CN Methanesulfonamide, N-[2-[2-[4-amino-6,7,8,9-tetrahydro-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methyl- (9CI) (CA INDEX NAME)



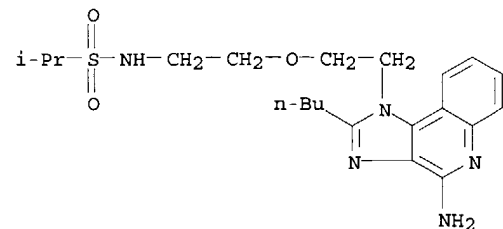
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CN Ethanesulfonamide, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]- (9CI) (CA INDEX NAME)



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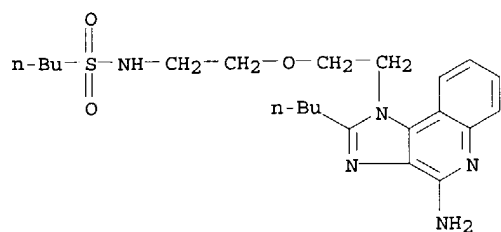
CN 2-Propanesulfonamide, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]- (9CI) (CA INDEX NAME)



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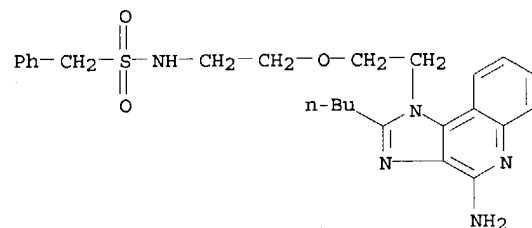
RN 437382-58-6 CAPLUS

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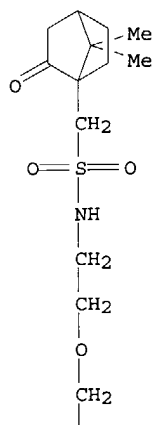
RN 437382-61-1 CAPLUS

CN Benzenesulfonamide, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]- (9CI) (CA INDEX NAME)

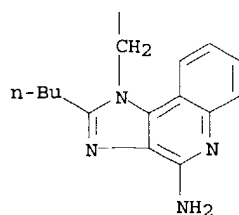


RN 437382-75-7 CAPLUS

CN Bicyclo[2.2.1]heptane-1-methanesulfonamide, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-7,7-dimethyl-2-oxo-, (1S,4R)- (9CI) (CA INDEX NAME)

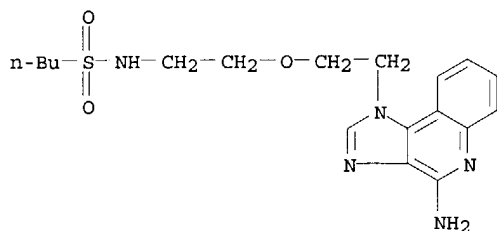


PAGE 1-A



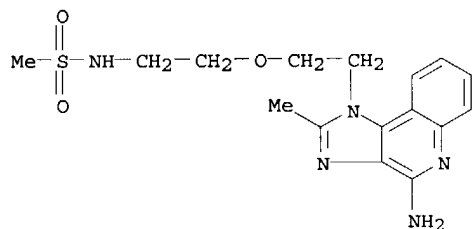
RN 437382-89-3 CAPLUS

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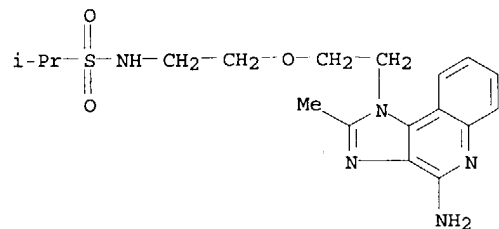
RN 565454-55-9 CAPLUS

CN Methanesulfonamide, N-[2-[2-(4-amino-2-methyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]- (9CI) (CA INDEX NAME)



RN 565454-56-0 CAPLUS

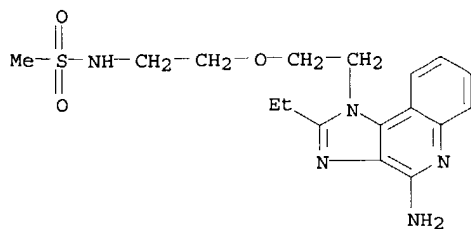
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RN 565454-57-1 CAPLUS

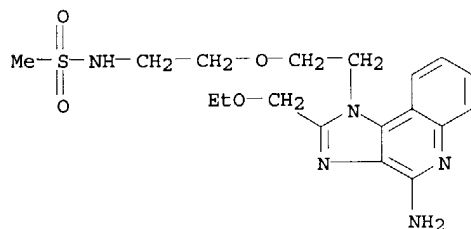
CN Methanesulfonamide, N-[2-[2-(4-amino-2-ethyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]- (9CI) (CA INDEX NAME)

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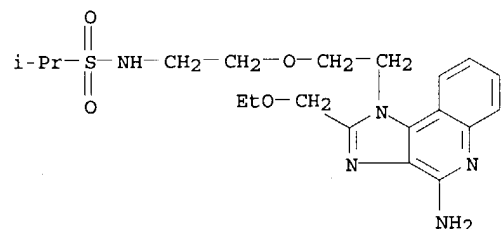
RN 565454-58-2 CAPLUS

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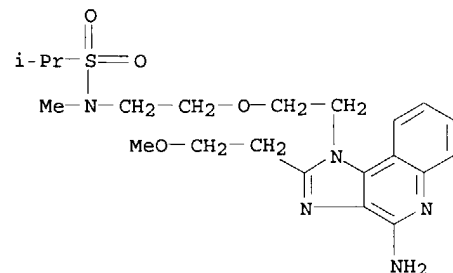
RN 565454-59-3 CAPLUS

CN 2-Propanesulfonamide, N-[2-[2-[4-amino-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]- (9CI) (CA INDEX NAME)



RN 565454-60-6 CAPLUS

CN 2-Propanesulfonamide, N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:449681 CAPLUS

DN 137:33297

TI Preparation of sulfonamido ether substituted imidazoquinolines as immune response modifiers

IN Crooks, Stephen L.; Greisgraber, George W.; Heppner, Philip D.; Merrill, Bryon A.; Roberts, Ralph R.; Wei, Ai-Ping

PA 3M Innovative Properties Company, USA

10696478

SO PCT Int. Appl., 74 pp.

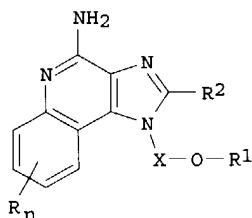
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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	US 6664260	B2	20031216		
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	US 2001-11921	A1	20011206		
	WO 2001-US46582	W	20011206		
OS	MARPAT 137:33297				
GI					



I

AB The title compds. [I; X = (CH₂)₂, (CH₂)₃, CH₂CH₂, etc.; R₁ = R₄NR₃SO₂R₆alkyl, R₄NR₃SO₂R₆aryl, etc.; R₂ = H, alkyl, alkenyl, etc.; R₃ = H, alkyl, aralkyl; R₄ = alkylene or alkenylene interrupted by one or more O atoms; or R₃R₄ can join together to form a ring; R₆ = a bond, alkylene or alkenylene which may be interrupted by one or more O atoms; n = 0-4; R = alkyl, alkoxy, OH, etc.] that contain substituted amine functionality at the 1-position, and are useful as immune response modifiers, were prepared E.g., a multi-step synthesis of I [X = (CH₂)₂; R₁ = (CH₂)₂NMeSO₂Me; R₂ = (CH₂)₂OMe; n = 0] which showed the lowest concentration of 0.01 μM and 0.12 μM to induce interferon α and TNFα, resp., was given. The compds. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

IT 437382-50-8P 437382-51-9P 437382-52-0P
437382-53-1P 437382-55-3P 437382-56-4P
437382-58-6P 437382-61-1P 437382-75-7P
437382-89-3P

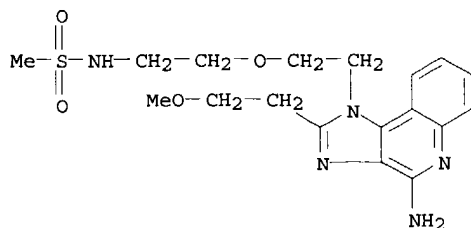
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of sulfonamido ether substituted imidazoquinolines as immune response modifiers)

RN 437382-50-8 CAPLUS

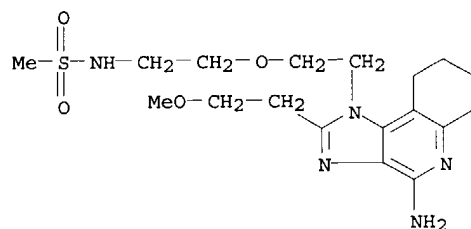
CN Methanesulfonamide, N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]- (9CI) (CA INDEX NAME)

10696478



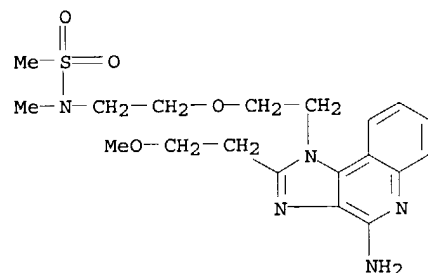
RN 437382-51-9 CAPLUS

CN Methanesulfonamide, N-[2-[2-[4-amino-6,7,8,9-tetrahydro-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]- (9CI) (CA INDEX NAME)



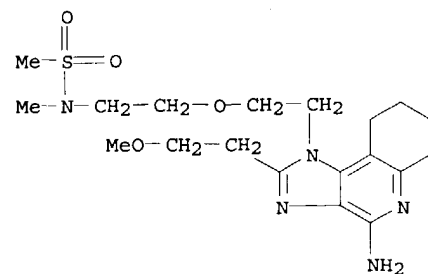
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CN Methanesulfonamide, N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 437382-53-1 CAPLUS

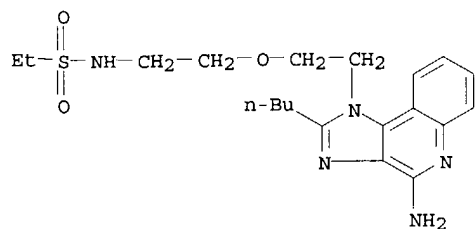
CN Methanesulfonamide, N-[2-[2-[4-amino-6,7,8,9-tetrahydro-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methyl- (9CI) (CA INDEX NAME)



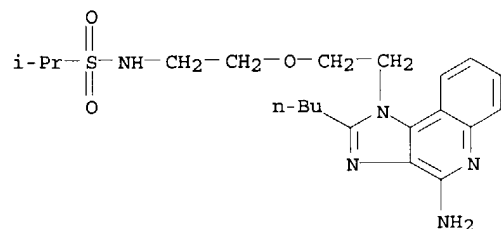
RN 437382-55-3 CAPLUS

CN Ethanesulfonamide, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]- (9CI) (CA INDEX NAME)

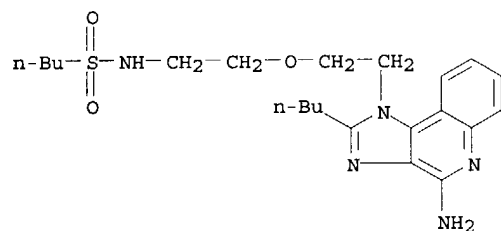
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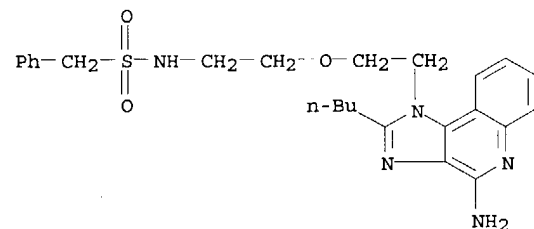
RN 437382-56-4 CAPLUS
CN 2-Propanesulfonamide, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]- (9CI) (CA INDEX NAME)



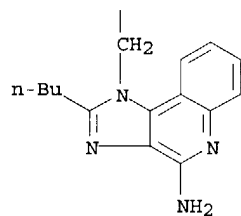
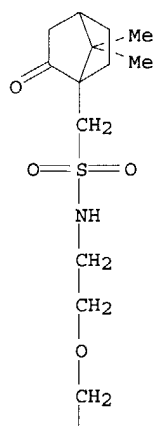
RN 437382-58-6 CAPLUS
CN 1-Butanesulfonamide, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]- (9CI) (CA INDEX NAME)



RN 437382-61-1 CAPLUS
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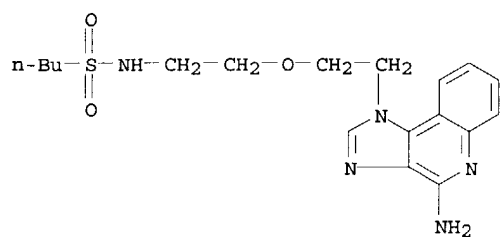


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CN Bicyclo[2.2.1]heptane-1-methanesulfonamide, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-7,7-dimethyl-2-oxo-, (1S,4R)- (9CI) (CA INDEX NAME)



RN 437382-89-3 CAPLUS

CN 1-Butanesulfonamide, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]- (9CI) (CA INDEX NAME)



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